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Appl. No. 10/038,947
Reply to Office Action of March 9, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (Original) A method to detect a peak selection error in a waveform, comprising:
 - a) measuring a first average transit time for one or more ultrasonic signals along a first path in a pipeline;
 - b) measuring a second average transit time for one or more ultrasonic signals along a second path in said pipeline, said second path being of different length than said first path;
 - c) determining whether there exists a peak selection error based on the length of said first path, the length of said second path, said first average transit time, and said second average transit time.
2. (Original) The method of claim 1, further comprising:
 - d) computing the size and direction of said peak selection error.
3. (Original) The method of claim 1, further comprising:
 - d) computing the size and direction of said peak selection error;
 - e) correcting for said peak selection error.
4. (Original) The method of claim 1, wherein there exists a peak selection error when a variable η has an absolute value greater than a predetermined value, η being defined according to the equation: